

In the Claims:

13. (currently amended) A toner-free process for inscription of a sheet-like adhesive system made of a polymer having an adhesive-free side, ~~the~~ active agent-containing therapeutic system having an adhesive side and an adhesive-free side, said system including comprising at least one active ingredient-containing layer, a material layer to be inscribed, an information layer overlying said material layer to be inscribed and a backing layer impermeable to ingredients or water vapor, and using a movably guided laser beam emission device, said process comprising:

~~placing the adhesive in a support position;~~

placing the sheet-like active agent-containing system with the adhesive side facing a support position;

guiding the laser emission device to emit the laser beam onto the device by a program of a manually operable central control unit; and

controlling the intensity and penetration depth of the laser beam according to the material properties of ~~the system~~ said sheet-like active agent-containing system in such a way that the laser beam does not penetrate far enough to reach one of the at least one active ingredient-containing ~~layer~~ layers and preventing a detrimental influence on the ingredients contained in the system.

14. (deleted)

15. (currently amended) The process according to claim [[14]] 13 wherein the active -agent containing therapeutic system is in the form of a plaster.

16. (original) The process according to claim 13 wherein said detrimental influence is

heat generated by said guided laser beam.

17. (original) The process according to claim 13 wherein said detrimental influence is a perforation of said backing layer.
18. (currently amended) The process according to claim 13 and further including covering the layer to be inscribed with an overlying layer having information in the form of characters or signs thereon, said overlying layer being a color layer which disintegrates at a moderate laser irradiation level, applying the moderate laser irradiation level to disintegrate the color level and thereby inscribing the laser-exposed information in the form of characters or signs ~~onto~~ on the underlying layer to be inscribed.
19. (currently amended) The process according to claim 13 wherein at least one pigment-containing layer is under the layer to be inscribed and each of the at least one pigment-containing layers disintegrates at a moderate laser irradiation level, and the process further includes applying the moderate laser irradiation level to disintegrate the at least one pigment containing layer while ~~applying~~ forming the laser-exposed ~~characters~~ character onto the underlying pigmented layer.
20. (original) The process according to claim 13 wherein the overlying information layer has a conspicuous color relative to the layer to be inscribed.
21. (original) The process according to claim 13 and further including setting the intensity of the effect of the laser beam to particular parameters, and setting the parameters determining the intensity of the effect of the laser beam on the layer to be inscribed to modify only the uppermost layers of the system.

22. (original) The process according to claim 13 and further including guiding by electromagnetic control the movably guided laser beam to amend, delete or input at any point the information being inscribed by the program of the manually operable central control unit.

23. (original) The process according to claim 22 wherein the central control unit includes a keyboard.

24. (currently amended) A process according to claim 22 and further including transferring the information ~~data generated by other production steps~~ to the program of the central control unit.

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25. (original) A process according to claim 13 wherein the process further includes a method to produce single-colored or multi-colored pattern of characters or signs comprising applying at least two overlying pigmented layers to the layer to be inscribed, and further including disintegrating the at least two pigmented layers by accurate control of the penetration depth of the laser beam to visualize the at least two underlying pigmented color layers.

26. (currently amended) A device for the toner-free inscription of a sheet-like adhesive system comprising a laser appliance cooperating with ~~a means~~ an electromagnetic control for the control of the laser beam as to its direction and irradiation intensity as determined by a manually operable control unit which is provided with a data memory and a data processor, ~~characterized in that~~ wherein the control unit has superimposed thereon a keyboard with a converter for immediate digital input of characters or other signs or corresponding data records.

27. (currently amended) A device according to claim 26 and further including transferring the data ~~generated by other production steps~~ alternately or simultaneously to a program of the control unit for control.

28. (currently amended) A device for toner-free inscription of a sheet-like adhesive system comprising a laser appliance cooperating with ~~a means~~ an electromagnetic control for the control of a laser beam as to its direction and irradiation intensity as determined by a control unit which is provided with a data memory and a data processor, characterized in that the data generated by other production steps are transferred to control a program of the control unit.

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